Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-04-04** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/94/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-09-04-04 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.41	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-04-04** **Date: 03-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/94/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-09-04-04 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-09-2018
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-04-04** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/94/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-09-04-04 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	248	248	1.7	98.3	90-100
3	20 mm	7344	7592	50.6	49.4	30-70
4	10 mm	4735	12327	82.2	17.8	10-35
5	4.75 mm	2311	14638	97.6	2.4	0-5
6	Pan	362	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-04-04** **Date: 07-09-2018**

Sample ID No : 2018-09-04-04 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.3**	
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.42**	_
5	Bulk Density(Compacted) (Kg/l)	**1.48**	_
6	Water Absorption(%)	**0.23**	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-04-04** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/94/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-09-04-04 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	188	188	3.8	96.2	90-100
3	10 mm	2411	2599	52.0	48.0	25-55
4	4.75 mm	2148	4747	94.9	5.1	0-10
5	Pan	253	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-04-04** **Date: 07-09-2018**

Sample ID No : 2018-09-04-04 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.46**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.21**	_
7	Aggregate crushing Value(%)	**23.7**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.5**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-04-04** **Date: 07-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/94/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-2018

Sample ID No : 2018-09-04-04 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-09-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	23	23	2.3	97.7	90-100	90-100	90-100	95-100
3	2.36 mm	107	130	13.0	87.0	60-95	75-100	85-100	95-100
4	1.18 mm	170	300	30.0	70.0	30-70	55-90	75-100	90-100
5	600 micron	225	525	52.5	47.5	15-34	35-59	60-79	80-100
6	300 micron	240	765	76.5	23.5	5-20	8-30	12-40	15-50
7	150 micron	150	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-04-04** **Date: 07-09-2018**

Sample ID No : 2018-09-04-04 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-09-10-08** **Date: 14-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/94/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-2018
Sample ID No	:	2018-09-10-08 /05
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	10-09-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	151	202	12201	24.470	2005.6	2009.6	Not less than 1800Kg/m^3
2	400	153	203	12424	24.610	1980.9		
3	401	151	202	12231	24.980	2042.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.660	24.340	5.42	5.56	Shall not be more than 10% by mass
2	25.820	24.510	5.34		
3	25.610	24.180	5.91		

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Lab ID : **CP-2018-09-10-08** **Date: 14-09-2018**

Sample ID No : **2018-09-10-08 /05**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	151	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	150	200	
3	404	152	198	
4	403	150	203	
5	400	151	201	
6	401	152	203	
7	402	150	198	
8	401	151	201	
9	402	150	203	
10	402	151	202	
11	401	149	200	
12	403	151	199	
13	401	153	203	
14	402	152	200	
15	401	150	201	
16	402	151	203	
17	403	151	201	
18	400	153	203	
19	401	150	201	
20	402	149	202	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2018-09-10-08** **Date: 14-09-2018**

Sample ID No : 2018-09-10-08 /05

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	151	60702	320.3	5.3	5.2
2	401	150	60150	309.9	5.2	
3	404	152	61408	312.5	5.1	
4	403	150	60450	318.8	5.3	
5	400	151	60400	307.9	5.1	
6	401	152	60952	317.2	5.2	
7	402	150	60300	311.6	5.2	
8	401	151	60551	308.8	5.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-09-10-08** **Date: 14-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/94/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-2018
Sample ID No	:	2018-09-10-08 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	10/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.27	1.264	4478	73.7	16.5	15.3	19.1
2	Cover Slab-2	75.16	100.44	1.312	4436	74.6	16.8	15.6	19.6
3	Cover Slab-3	75.33	100.73	1.285	4456	75.7	17.0	15.8	19.7

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-09-10-08** **Date: 14-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/94/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-2018

Sample ID No : 2018-09-10-08 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.52	250.25	3.216	31574	580.9	18.4	17.1	21.4
2	Cover Slab-2	200.48	250.41	3.192	31561	592.3	18.8	17.5	21.8
3	Cover Slab-3	200.39	250.37	3.218	31533	586.5	18.6	17.3	21.6

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-19-07** **Date: 21/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/94/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-09-19-07 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/09/2018	21/09/2018	149.68 X 150.44 X 150.34	22518	8.152	277.0	12.3	12.1
2	PCC	M15	14/09/2018	21/09/2018	150.47 X 150.34 X 150.55	22622	8.056	269.2	11.9	
3	PCC	M15	14/09/2018	21/09/2018	149.68 X 150.23 X 150.47	22486	8.195	274.3	12.2	

Note:

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CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-19-07** **Date: 12/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/94/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-09-19-07 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/09/2018	12/10/2018	149.86 X 150.47 X 150.36	22549	8.025	401.4	17.8	17.2
2	PCC	M15	14/09/2018	12/10/2018	151.76 X 150.44 X 150.33	22831	8.241	381.3	16.7	
3	PCC	M15	14/09/2018	12/10/2018	151.05 X 150.69 X 150.48	22762	8.185	391.5	17.2	

Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-19-07** **Date: 21/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/94/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-09-19-07 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/09/2018	21/09/2018	149.88 X 150.47 X 149.85	22552	8.250	275.1	12.2	12.3
2	PCC	M15	14/09/2018	21/09/2018	150.44 X 150.54 X 149.52	22647	8.212	285.4	12.6	
3	PCC	M15	14/09/2018	21/09/2018	150.44 X 150.24 X 150.11	22602	8.206	275.7	12.2	

Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-19-07** **Date: 12/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/94/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-09-19-07 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/09/2018	12/10/2018	149.63 X 149.77 X 151.23	22410	8.065	383.2	17.1	17.4
2	PCC	M15	14/09/2018	12/10/2018	150.48 X 150.69 X 150.46	22676	8.189	399.1	17.6	
3	PCC	M15	14/09/2018	12/10/2018	150.44 X 150.37 X 150.97	22622	8.168	393.6	17.4	

Note:

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-19-07** **Date: 21/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/94/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-09-19-07 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/09/2018	21/09/2018	150.33 X 150.47 X 150.49	22620	8.154	269.2	11.9	12.1
2	PCC	M15	14/09/2018	21/09/2018	151.58 X 150.48 X 151.03	22810	8.136	276.0	12.1	
3	PCC	M15	14/09/2018	21/09/2018	150.44 X 150.59 X 150.34	22655	8.145	278.7	12.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-19-07** **Date: 12/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and Footpath Maintenance in Ward no.11, (Kuvempunagara), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/94/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-09-19-07 /06

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/09/2018	12/10/2018	149.66 X 150.48 X 150.33	22521	8.145	382.9	17.0	16.9
2	PCC	M15	14/09/2018	12/10/2018	150.47 X 150.66 X 148.98	22670	8.198	374.1	16.5	
3	PCC	M15	14/09/2018	12/10/2018	150.78 X 150.49 X 150.87	22691	8.203	390.3	17.2	

Note:

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